DiViS DVR – CAP Series

Hardware Installation Guide **Rev. 1.5**

Digital Video Security System
Digital Video Recorder

www.DiViSdvr.com

DiViS DVR.com

* All contents of this document may change without prior notice, and actual product appearance may differ from depicted herein

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Introduction

This is a guide book that explains the hardware components and provides a step-by-step installation of DVR board.

For the software explanation, please refer to “Installation and User’s Guide”.

This guide book is applicable to, among DiViS products, 3004S, 3004, and 6016 boards.

The pictures and names of the products are subject to change; however, the usage may be similar.

Please contact us through the LiveChat service for any technical questions.

Website: http://www.divisdvr.com

1. Specification of DiViS CAP

- **1~4 Camera Inputs / Output**

  Up to 4 camera inputs are available on screen for digital handling.

  Normal input condition: 75 Ohm, 1 Volt (p-p)

- **1~4 Sensor Inputs**

  Up to 4 sensors can be linked to the system.

  External DC 12 Volt power must be provided to the sensor input from outside.

- **1~4 Digital Outputs (Relay Outputs)**

  Digital Outputs can be used to activate things like shutters and sirens, and activation can be linked to sensor and motion detection.

- **Sound Recording and Two-Way Communication Capabilities**

  Sound can be recorded with video images. Two-way communication is possible between DiViS main and DiViS Net.

- **Display Features (w/ Multi-Viewing)**

  Multi-Viewing allows 1, or 4 different camera shots to be displayed onscreen at the same time. Other display features include enlarging all displayed cameras or just one.

- **PAN/TILT/ZOOM/FOCUS Capabilities**

  Each connected camera can be manipulated through the DiViS main program as long as each camera supports such capabilities.

- **Auto Rebooting System**

  When DiViS detects an error or malfunction within the system, it will automatically reboot the system in order to correct it.

- **Motion Detection and Sensor Trigger**

  Detection features make it possible to record images only when movement is detected, preserving volume space and maximizing the use of physical storage space.

- **Scheduled Recording**

  Scheduling allows the administrator to record images only during designated time periods, if so desired. Every combination of scheduling is available in the DiViS program.

- **Manual and Auto Backup**

  Data can be preserved through various formats (DAT, CD, or DVD) and data from specific cameras and/or time periods can be specifically isolated for backup as well. Much like scheduled recording, backup of data can be scheduled as well.

- **Digitalized Video Search**

  Recorded data features digital playback for each camera simultaneously or one at a time. Playback features include advanced search features and image extracting, which allows portions of existing video to be extracted and saved as a separate file.

- **Network Support (PSTN, TCP/IP, LAN , Modem Protocol Support)**

  DiViS supports network access, which allows administrators to login to DiViS main and remotely access all the features provided locally.

- **Integration with Text data from External Devices**

  Data from external devices (POS, Access Control, ATM, etc) can be recorded with DVR video images. Text Search allows to search data from external devices with DVR video image when event occurs. This will raise the level of integrity and security.

Feature	CAP Series
Camera Input	1~4 Port (NTSC/PAL)
Sound Input	1 or 2 Port
Sensor Input	1~4 Port
Relay Output	1~4 Port
Composite Output	1 Port (NTSC/PAL, 1 Channel Switching)
Image Format	Software MPEG-4
Recording Mode	Watch, Normal, Motion Detection, Sensor, Scheduled Recording
Remote Control	Full remote control PSTN, ISDN,ADSL, LAN and TCP/IP
Back-up	DAT, CD, DVD
PAN/TILT/ZOOM/FOCUS	RS-422/485 Interface

2. Products and Components

2-1. DiViS CAP Series Board

3004S [1]

3004 [2]

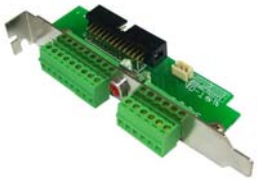
2-2. Accessories

Audio Cable [2]

RS-485 Board [1]

RS-485 Cable [1]

Reset Cable [2]



Sensor & Relay Board (4ch) [2]

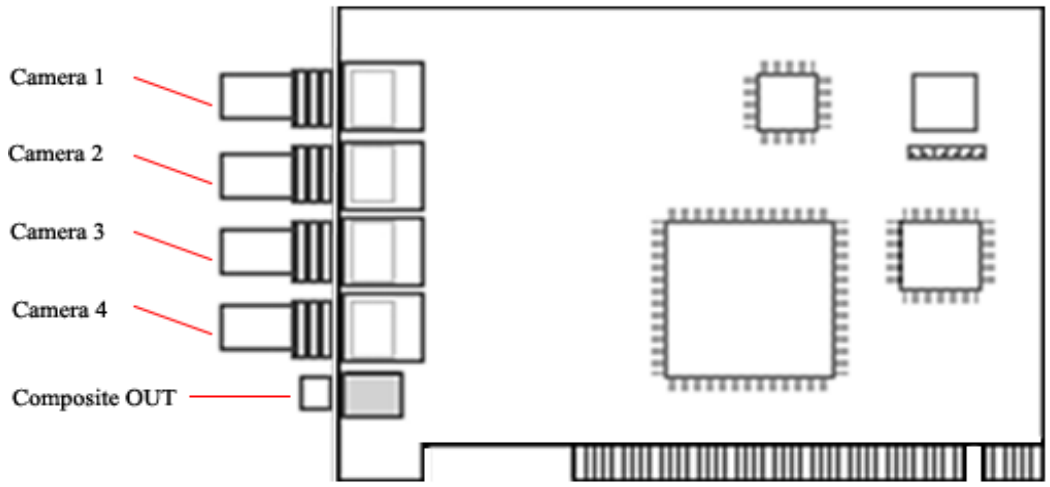
Sensor & Relay Cable [2]

[1] *RS-485 and RS-485 Cable is optional for 3004S and 3004.*

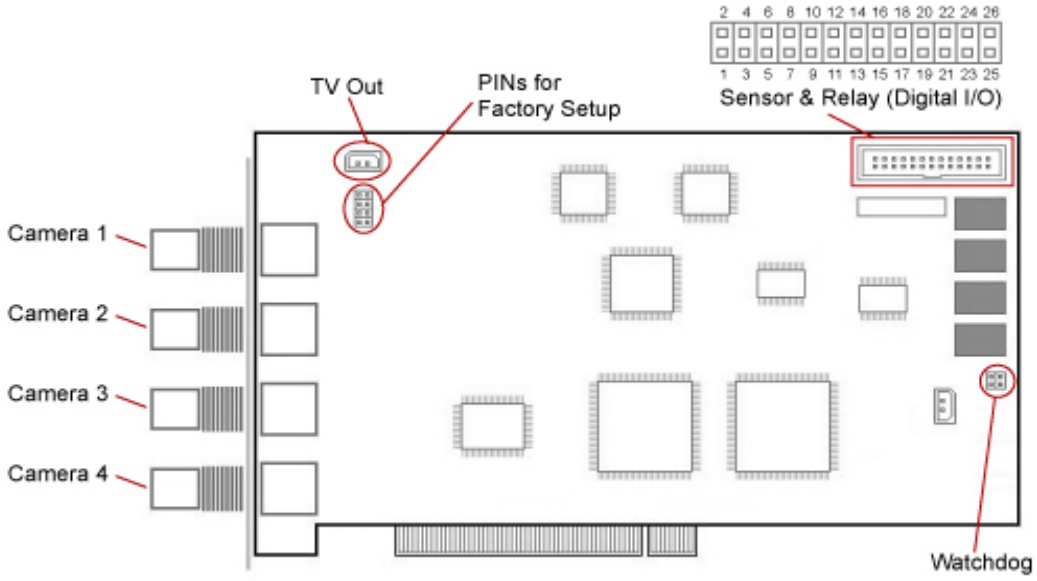
[2] *Reset Cable, Sensor Port(4), Sensor Cable, and Audio Cable are not included nor supported by CAP3004S.*

3. Board Description

3-1. 3004S

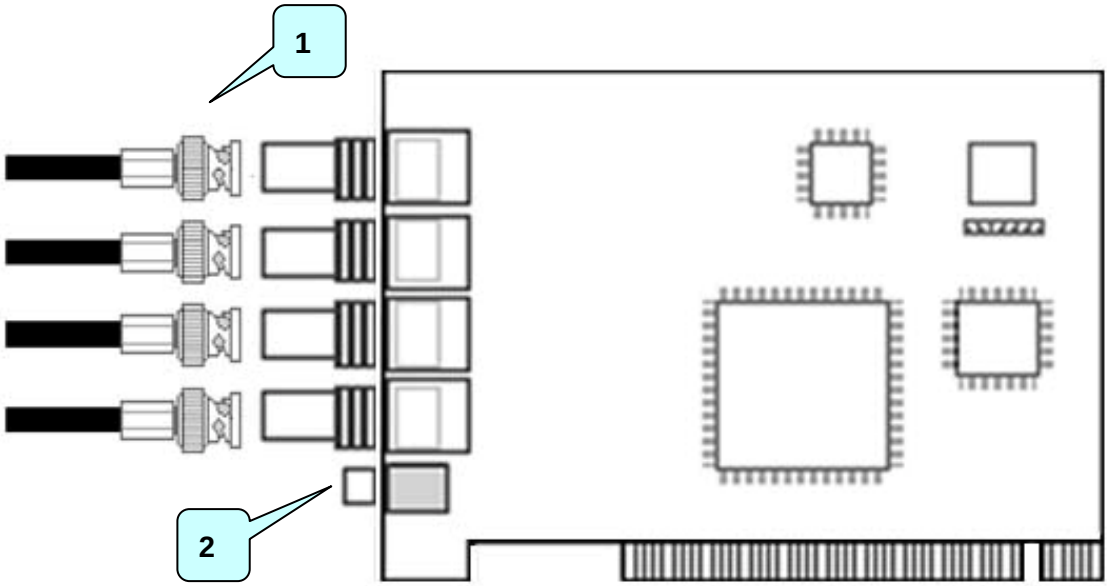


3-2. 3004


2 4 6 8 10 12 14 16 18 20 22 24 26
1 3 5 7 9 11 13 15 17 19 21 23 25
TV Out
PINs for
Factory Setup
Sensor & Relay (Digital I/O)
Camera 1
Camera 2
Camera 3
Camera 4
Watchdog

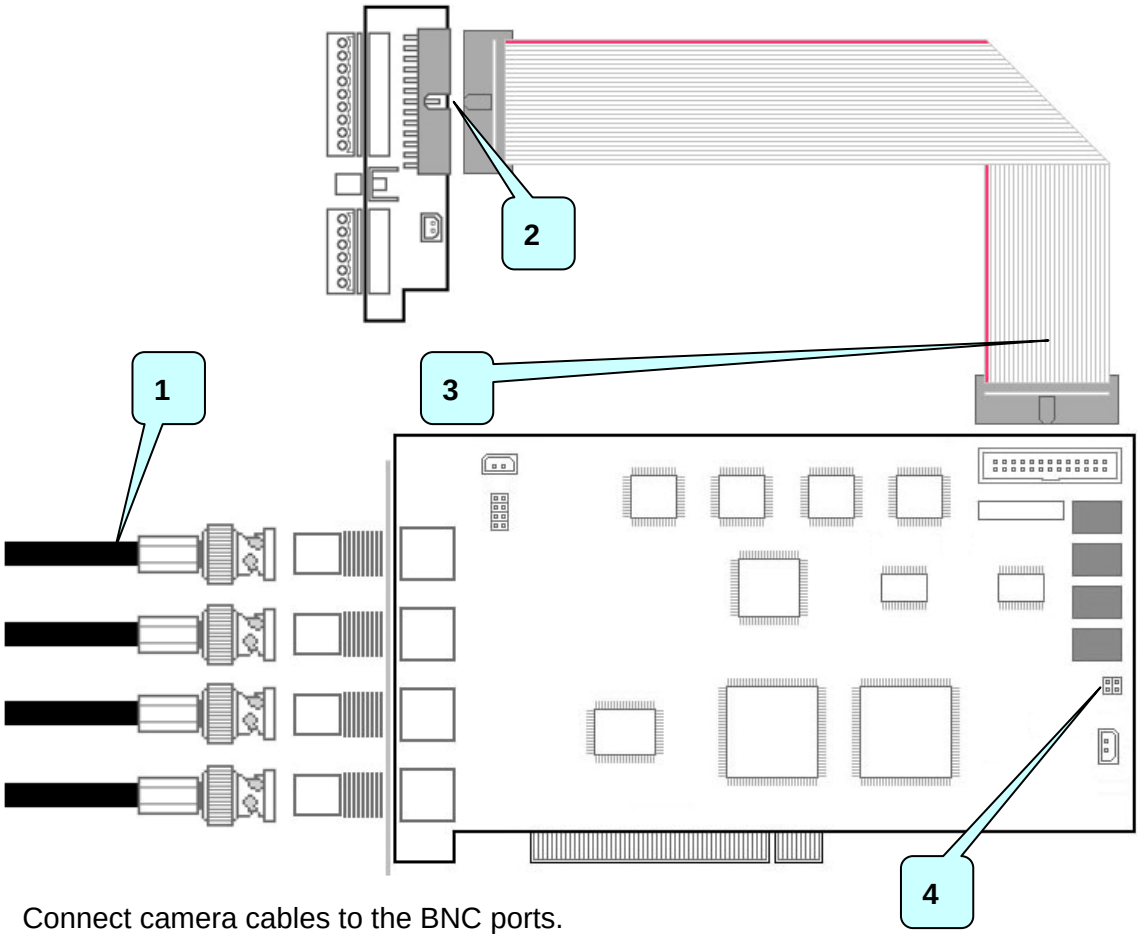
4. Installation

4-1. 3004S



1. Connect camera cables to the BNC ports.
2. Connect Composite-OUT cable.

4-2. 3004



1) Connect camera cables to the BNC ports.
2) Sensor cable connects to Sensor port.
3) The other side of sensor cable connects to IO socket on the DVR board.
4) Connect Watchdog cable as shown below. (The white cable must face the top.)

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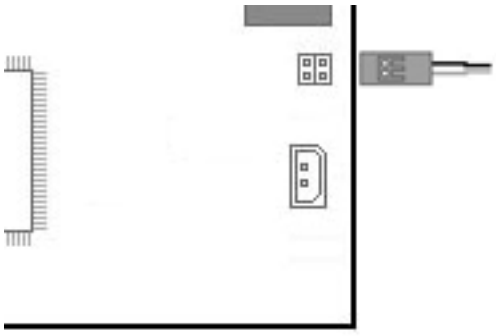
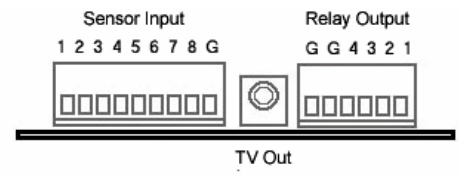
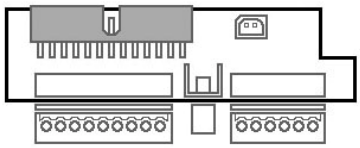


5. Accessories

5-1. Sensor Board (4 channel)





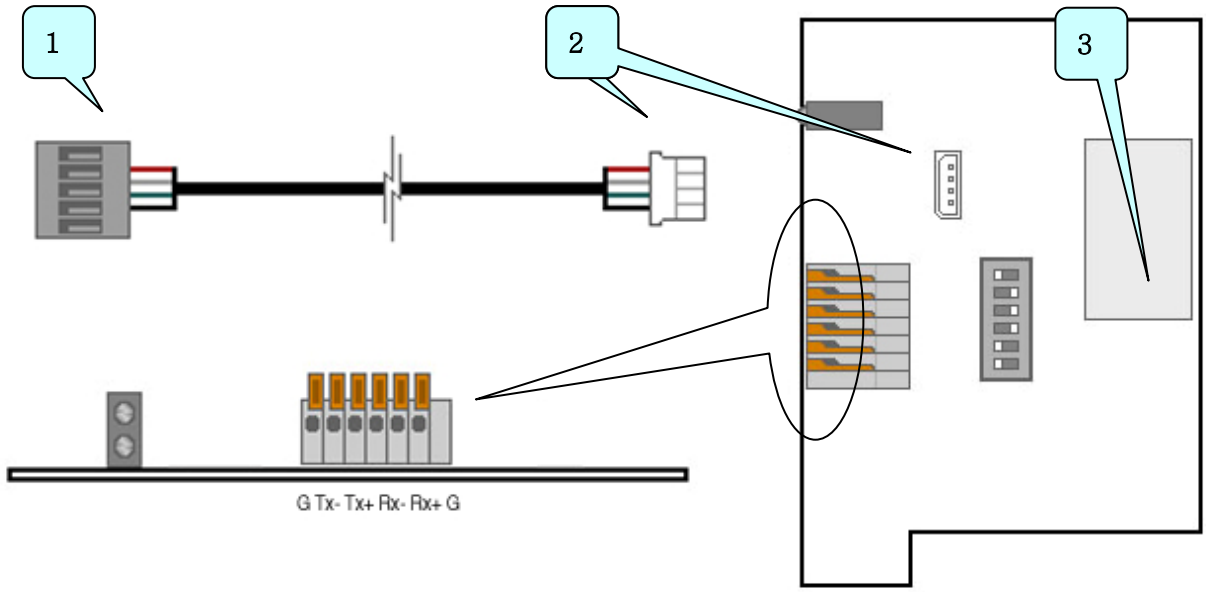
Sensor port pin number

1 ~ 8: Signal input

G: Ground

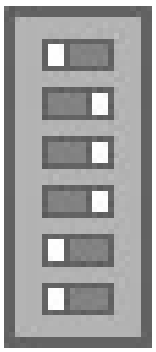
4, 3, 2, 1: Relay output

5-2. USB to RS422/485 Converter

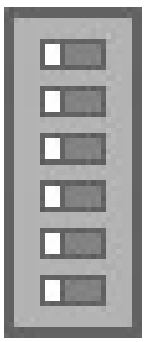


1) Connect to internal USB header on system motherboard.
2) Connect the other side to RS422/485 Board.
3) Connect a power source to any one of these power sockets.

RS-485 Mode



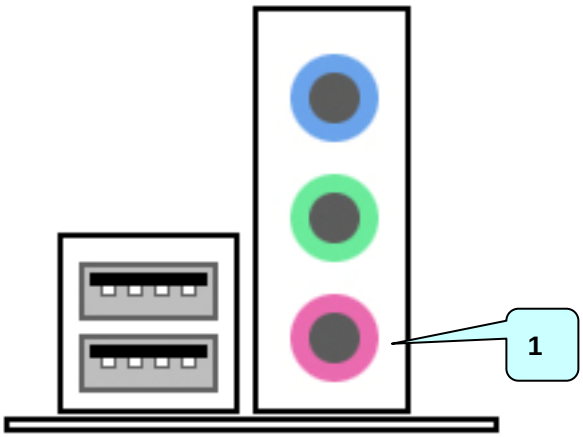
RS-422 Mode



5-3. Sound Recording

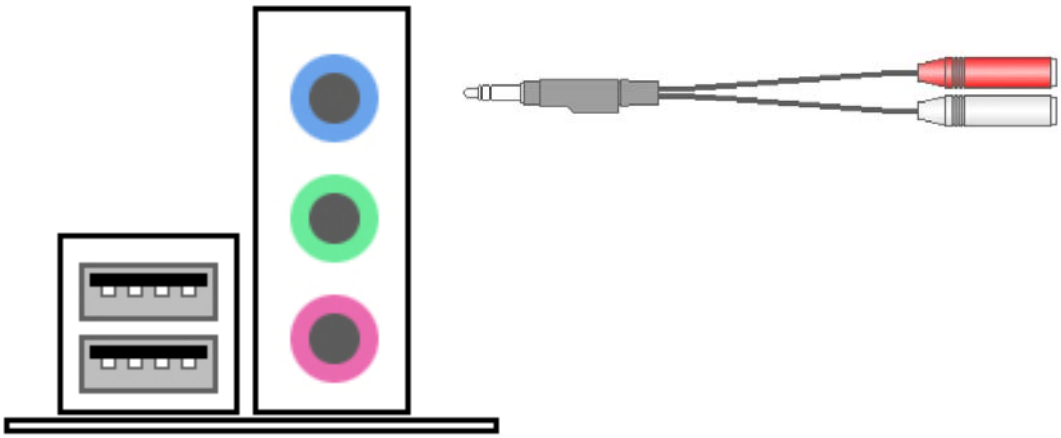
After connecting Microphone, ensure that “Line In” and “Microphone In” is not muted in the Windows sound setting. *Note: Direct X 8.0 or higher is required for Sound Recording.*

5-3-1. 1 Channel sound



1) Connect to “Microphone In” of sound card.

5-3-2. 2 Channel sound



1) Connect to “Line In” of sound card with included 2 channel audio cable.
2) Connect microphones to the audio cable.
   - Must use amplified microphone.